

SUBSTITUTE FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 8830-24	SERIAL NO. 10/049,702
INFORMATION DISCLOSURE STATEMENT				APPLICANT: Camilo Anthony Leo Selwyn Colaco	
				FILING DATE April 16, 2002	GROUP 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	AA	5,049,646	9/17/91	Tyagi, et al.	528	272	
	AB	5,561,221	10/1/96	Yoshida, et al.	530	350	
	AC	5,747,332	5/5/98	Wallen, et al.	435	272	
	AD	5,843,460	12/1/98	Labigne, et al.	424	234.1	
	AE	5,961,979	10/5/99	Srivastava	424	193.1	
	AF	5,981,706	11/9/99	Wallen, et al.	530	350	
	AG	6,248,330	6/19/01	Labigne, et al.	424	192.1	
	AH	6,368,599	4/9/02	Langermann, et al.	424	184.1	
	AI	6,410,028	6/25/02	Srivastava	424	193.1	
	AJ	6,447,781	9/10/02	Srivastava	424	193.1	
	AK	6,455,503	9/24/02	Srivastava	514	21	
	AL	6,500,434	12/31/02	Langermann, et al.	424	197.11	
	AM	6,576,244	6/10/03	Weltzin, et al.	424	234.1	
	AN	6,872,542	3/29/05	Hultgren, et al.	435	7.32	
	AO	6,913,750	7/5/05	Hultgren, et al.	424	190.1	
	AP	6,962,791	11/8/05	Hultgren, et al.	435	7.37	
	AQ	7,041,465	5/9/06	Hultgren, et al.	435	7.32	
	AR	2003/0082242	5/1/03	Rodriguez-Kabana	424	600	
	AS	2003/0099665	5/29/03	Langermann, et al.	424	190.1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER			DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

SUBSTITUTE FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 8830-24	SERIAL NO. 10/049,702
INFORMATION DISCLOSURE STATEMENT				APPLICANT: Camilo Anthony Leo Selwyn Colaco	
				FILING DATE April 16, 2002	GROUP 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	AT	2003/0165516	9/4/03	Srivastava	424	185.1	
	AU	2003/0211102	11/13/03	Tiwari	424	145.1	
	AV	2003/0216315	11/20/03	Nicchitta, et al.	514	12	
	AW	2004/0022796	2/5/04	Srivastava	424	185.1	
	AX	2004/0047879	3/11/04	Tian, et al.	424	189.1	
	AY	2004/0052812	3/18/04	Hoe, et al.	424	186.1	
	AZ	2005/0232946	10/20/05	Colaco	424	199.1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BA	WO 90/02564	3/22/90	PCT	A61K	39/005		
	BB	WO 96/40928	12/19/96	PCT	C12N	15/31		
	BC	WO 97/10002	3/20/97	PCT	A61K	39/385		
	BD	WO 00/10597	3/2/00	PCT	A61K	39/00		
	BE	WO 01/13944	3/1/01	PCT	A61K	39/00		
	BF	WO 01/63278	8/30/01	PCT	G01N	33/50		

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Pages, Etc.*)

BG	Bae, et al., "Mice immune responses to <i>Brucella abortus</i> heat shock proteins Use of baculovirus recombinant-expressing whole insect cells, purified <i>Brucella abortus</i> recombinant proteins, and a vaccinia virus recombinant as immunogens" <i>Veterinary Microbiology</i> 88 (2002) 189-202
BH	Bowie, et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions", <i>Science</i> , vol. 247: 1306-1310, 1990
BI	Buchmeier, et al., "Induction of Salmonella Stress Proteins upon Infection of Macrophages", <i>Science</i> , Vol. 248, No. 4956 (May 11, 1990), pp. 730-732
BJ	Deepe, et al., "Cellular and Molecular Regulation of Vaccination with Heat Shock Protein 60 from <i>Histoplasma capsulatum</i> ", <i>Infection and Immunity</i> , July 2002, p. 3759-3767, vol. 70, no. 7
BK	Del Giudice, et al., "Priming to Heat Shock Proteins in Infants Vaccinated against Pertussis", <i>The Journal of Immunology</i> , Vol. 150, 2025-2032, No. 5, March 1, 1993

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

SUBSTITUTE FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 8830-24	SERIAL NO. 10/049,702
INFORMATION DISCLOSURE STATEMENT		APPLICANT: Camilo Anthony Leo Selwyn Colaco	
		FILING DATE April 16, 2002	GROUP 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BL	Ding, et al., "Complexes between Chaperonin GroEL and the Capsid Protein of Bacteriophage HK97", <i>Biochemistry</i> 1995, 34, 14918-14931
BM	Eschweiler, et al., "In situ Localization of the 60 k Protein of Helicobacter pylori, which Belongs to the Family of Heat Shock Proteins, by Immuno-electron Microscopy", <i>Internal Journal of Medical Microbiology, Virology, Parasitology and Infectious Diseases</i> , Vol. 280, 73-85 (1993)
BN	Evans, et al., "Urease-Associated Heat Shock Protein of <i>Helicobacter pylori</i> ", <i>Infection and Immunity</i> , Vol. 60, No. 5, p. 2125-2127, May 1992
BO	Fayet, et al., "The <i>groES</i> and <i>groEL</i> Heat Shock Gene Products of <i>Escherichia coli</i> Are Essential for Bacterial Growth at All Temperatures", <i>Journal of Bacteriology</i> , Vol. 17, No. 3, Mar. 1989, p. 1379-1385
BP	Fernandez, et al., "Elevated Levels of <i>Legionella pneumophila</i> Stress Protein Hsp60 Early in Infection of Human Monocytes and L929 Cells Correlate with Virulence", <i>Infection and Immunity</i> , Vol. 64, No. 6, June 1996, p. 1968-1976
BQ	Ferrero, et al., "The GroES homolog of Helicobacter pylori confers protective immunity against mucosal infection in mice", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 92, pp. 6499-6503, July 1995
BR	Greenspan, et al., "Defining epitopes: It's not as easy as it seems", <i>Nature Biotechnology</i> , Vol. 17, October 1999, 936-937
BS	Hechard, et al., "Molecular cloning of the Chlamydophila abortus groEL gene and evaluation of its protective efficacy in a murine model by genetic vaccination", <i>Journal of Medical Microbiology</i> , (2004), 53, 861-868
BT	Jindal, et al., "Stress responses to viral infection", <i>Trends in Microbiol.</i> , 2: 89-91, 1994
BU	Laminet, et al., "The <i>Escherichia coli</i> heat shock proteins GroEL and GroES modulate the folding of the β-lactamase precursor", <i>The EMBO Journal</i> , vol. 9, no. 7, pp. 2315-2319, 1990
BV	Leclerq, et al., "Induction of a Th1-type of immune response but not protective immunity by intramuscular DNA immunization with <i>Brucella abortus</i> GroEL heat-shock Gene", <i>J. Med. Microbiol.</i> – vol. 51 (2002), 20-26

EXAMINER**DATE CONSIDERED**

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 8830-24		SERIAL NO. 10/049,702	
INFORMATION DISCLOSURE STATEMENT				APPLICANT: Camilo Anthony Leo Selwyn Colaco			
				FILING DATE April 16, 2002		GROUP 1645	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Pages, Etc.*)

BW	Lodish, et al., "Polypeptides Can Be Chemically Analyzed and Synthesized", <i>Molecular Cell Biology</i> , 3 rd ed., <i>Scientific American Books</i> , NY, 1995, p. 59
BX	Motohashi, et al., "Heat-inactivated proteins are rescued by the DnaKJ-GrpE set and ClpB chaperones", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 96, pp. 7184-7189, June 1999
BY	Murray, et al., "Mechanisms of Viral Pathogenesis", <i>Medical Microbiology</i> , 4 th ed., Mosby 2002, pp. 429-434
BZ	Narberhaus, "Negative regulation of bacterial heat shock genes", <i>Molecular Microbiology</i> , (1999) 31(1), 1-8
CA	Noll, et al., "Immunity against Yersinia enterocolitica by Vaccination with Yersinia HSP60 Immunostimulating Complexes or Yersinia HSP60 plus Interleukin-12", <i>Infection and Immunity</i> , Vol. 64, No. 8, Aug. 1996, p. 2955-2961
CB	Phipps, et al., "A novel ATPase complex selectively accumulated upon heat shock is a major cellular component of thermophilic archaebacteria", <i>The EMBO Journal</i> , vol. 10, no. 7, pp. 1711-1722, 1991
CC	Rambukkana, et al., "Identification and Characterization of Epitopes Shared between the Mycobacterial 65-Kilodalton Heat Shock Protein and the Actively Secreted Antigen 85 Complex: Their In Situ Expression on the Cell Wall Surface of <i>Mycobacterium leprae</i> ", <i>Infection and Immunity</i> , Vol. 60, No. 11, Nov. 1992, p. 4517-4527
CD	Sedger, et al., "Heat Shock Response to Vaccinia Virus Infection", <i>Journal of Virology</i> , Vol. 68, No. 7, July 1994, p. 4685-4689
CE	Sparrer, et al., "Catalysis of protein folding by symmetric chaperone complexes", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 94, pp. 1096-1100, February 1997
CF	Stewart, et al., "Heat-shock proteins and the host-pathogen interaction during bacterial infection", <i>Current Opinion in Immunology</i> , 2004, 16: 506-510

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

SUBSTITUTE FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 8830-24	SERIAL NO. 10/049,702
INFORMATION DISCLOSURE STATEMENT		APPLICANT: Camilo Anthony Leo Selwyn Colaco	
		FILING DATE April 16, 2002	GROUP 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CG	Szabo, et al., "The ATP hydrolysis-dependent reaction cycle of the <i>Escherichia coli</i> Hsp70 system – DnaK, DnaJ, and GrpE", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 91, pp. 10345-10349, October 1994
CH	Tomioka, "Adjunctive Immunotherapy of Mycobacterial Infections", <i>Current Pharmaceutical Design</i> , 2004, 10, 3297-3312
CI	Turner, et al., "Lack of Protection in Mice and Necrotizing Bronchointerstitial Pneumonia with Bronchiolitis in Guinea Pigs Immunized with Vaccines Directed against the hsp60 Molecule of <i>Mycobacterium tuberculosis</i> ", <i>Infection and Immunity</i> , Vol. 68, No. 6, June 2000, p. 3674-3679
CJ	Wawrzynow, et al., "The ClpX heat-shock protein of <i>Escherichia coli</i> , the ATP-dependent substrate specificity component of the ClpP-ClpX protease, is a novel molecular chaperone", <i>The EMBO Journal</i> , vol. 14 no. 9 pp. 1867-1877, 1995
CK	Wilson, et al., "Transient expression of bacterial gene fragments in eukaryotic cells: implications for CD8+ T cell epitope analysis", <i>Journal of Immunological Methods</i> 234 (2000) 137-147
CL	Yokota, et al., "Heat Shock Protein Produced by <i>Helicobacter pylori</i> ", <i>Microbiol. Immunol.</i> , 38(5), 403-405, 1994
CM	Zeilstra-Ryalls, et al., "The Universally Conserved GroE (Hsp60) Chaperonins", <i>Annu. Rev. Microbiol.</i> , 1991, 45: 301-25
CN	Zugel, et al., "Role of Heat Shock Proteins in Protection from and Pathogenesis of Infectious Diseases", <i>Clinical Microbiology Reviews</i> , Vol. 12, No. 1, Jan. 1999, p. 19-39

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	